

side by side	Feb. 15 2007 West. Search History	Count	result set
	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ		
L29	L20 and ((magnetostrictive or magnetostriction or magneto-restrict\$5 or magnetorestrict\$5) with (dampening or damp\$4 or cancel\$7 or null\$4 or insulat\$4))	11	L29
L28	L20 and (hysteresis)	44	L28
L27	L20 and (powder\$5 or grain or particle or particulate)	53	L27
L26	L20 and (nonferrite or nonferritic\$4 or non-ferrite or non-ferritic\$4)	5	L26
	DB=PGPB,USPT,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ		
L25	L24 and (cor\$4)	4	L25
L24	L23 and (powder\$5 or grain)	6	L24
L23	6069479	11	L23
L22	L21 and (powder\$5 or grain)	11	L22
L21	6215304	29	L21
	DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ		
L20	L19 and (magnetostrictive or magnetostriction or magneto-restrict\$5 or magnetorestrict\$5)	58	L20
L19	L18 and (antenna or coil or probe and size or loop or wavelength or hysteresis or wave-length or "wave length" or grain)	4609	L19
L18	L17 and (soft or ferrite or ferritic or core or powder\$4 or ferous or ferite or ferrous or iron or FE or "SmCo" or cobalt or cobault or samarium or sumariam)	7783	L18
L17	L13 and (ring\$4 or damp\$4 or acoustic\$6 or sound or cancel\$7 or null\$4 and insulat\$8)	8843	L17
L16	L15 and (antenna or coil or probe and size or loop or wavelength or hysteresis or wave-length or "wave length" or grain)	4571	L16
L15	L14 and (soft or ferrite or ferritic or core or powder\$4 or ferous or ferite or ferrous or iron or FE or "SmCo" or cobalt or cobault or samarium or sumariam)	7725	L15
L14	L13 and (ring\$4 or damp\$4 or acoustic\$6 or sound or cancel\$7 or null\$4 and insulat\$8)	8768	L14
L13	L12 and (formation or earth or wellbore or well-bore or "well bore" or "bore hole" or borehole or bore-hole or logging or lwd or mwd or lwt or mwt)	12068	L13
L12	L11 and ((magnetic adj resonance) or MRI or NMR)	16382	L12
L11	((amorphous with (material or metal)) or metglas or laminate or ribbon or kapton or (polyimide with film) or fluxtrol)	629710	L11
L10	((amorphous with (material or metal)) or metglas or laminate or ribbon or kapton or (polyimide with film))	629681	L10
L9	L5 not L6	16	L9
L8	L7 and (antenna or coil or probe and size or loop or wavelength or wave-length or "wave length")	42	L8
L7	L6 and (soft or ferrite or ferritic or core or powder\$4 or ferous or ferrous or iron or FE or fluxtrol or "SmCo" or cobalt or cobault or samarium or sumariam)	44	L7

<u>L6</u>	L5 and (ring\$4 or damp\$4 or acoustic46 or sound or cancel\$7 or null\$4 and insulat\$8)	46	<u>L6</u>
<u>L5</u>	L4 and (formation or earth or wellbore or well-bore or "well bore" or "bore hole" or borehole or bore-hole or logging or lwd or mwd or lwt or mwt)	62	<u>L5</u>
<u>L4</u>	L3 and ((magnetic adj resonance) or MRI or NMR)	87	<u>L4</u>
<u>L3</u>	L2 and (magnetostrictive or magnetostriction)	2226	<u>L3</u>
<u>L2</u>	((amorphous with metal) or metglas or laminate or ribbon or kapton or (polyimide with film))	568010	<u>L2</u>
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
<u>L1</u>	6452388	24	<u>L1</u>

END OF SEARCH HISTORY

## Refine Search

### Search Results -

Term	Documents
MAGNETOSTRICTIVE	17319
MAGNETOSTRICTIVES	41
MAGNETOSTRICTION	9166
MAGNETOSTRICTIONS	144
DAMPENING	41856
DAMPENINGS	21
MAGNETO-RESTRICT\$5	0
MAGNETO-RESTRICTION	30
MAGNETO-RESTRICTIVE	338
MAGNETO-RESTRICTIVELY	3
MAGNETO-RESTRICTVE	10
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Database:

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Search:

L29

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### Search History

DATE: Thursday, February 15, 2007

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Set  
Name Query

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Hit Name

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### Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 7084625 B2

L25: Entry 1 of 4

File: USPT

Aug 1, 2006

US-PAT-NO: 7084625

DOCUMENT-IDENTIFIER: US 7084625 B2

TITLE: Method and apparatus of reducing ringing in a nuclear magnetic resonance probe

DATE-ISSUED: August 1, 2006

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20050127909 A1

June 16, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kruspe; Thomas	Wienhausen			DE
Reiderman; Arcady	Houston	TX		US
Blanz; Martin	Celle			DE
Rottengatter; Peter	Isernhagen			DE

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Abstract	Claims	KMC	Draw D
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☐ 2. Document ID: US 6844727 B2

L25: Entry 2 of 4

File: USPT

Jan 18, 2005

US-PAT-NO: 6844727

DOCUMENT-IDENTIFIER: US 6844727 B2

TITLE: Method and apparatus of reducing ringing in a nuclear magnetic resonance probe

DATE-ISSUED: January 18, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kruspe; Thomas	Wienhausen			DE

Reiderman; Arcady	Houston	TX	
Blanz; Martin	Celle		DE
Rottengatter; Peter	Isernhagen		DE

US-CL-CURRENT: 324/303; 324/338, 343/788

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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## 3. Document ID: US 6452388 B1

L25: Entry 3 of 4

File: USPT

Sep 17, 2002

US-PAT-NO: 6452388

DOCUMENT-IDENTIFIER: US 6452388 B1

TITLE: Method and apparatus of using soft non-ferritic magnetic material in a nuclear magnetic resonance probe

DATE-ISSUED: September 17, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reiderman; Arcady	Houston	TX		
Beard; David R.	Houston	TX		

US-CL-CURRENT: 324/303; 324/309, 324/318, 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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4. Document ID: RU 2195007 C2, FR 2770304 A1, GB 2331809 A, NO 9803931 A, CA 2246279 A1, US 6069479 A, CA 2246279 C, GB 2368128 A, GB 2331809 B, GB 2368128 B, IL 126051 A

L25: Entry 4 of 4

File: DWPI

Dec 20, 2002

DERWENT-ACC-NO: 1999-305121

DERWENT-WEEK: 200313

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TITLE: Permanent magnet structure and composition for bore hole NMR investigations

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
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Fwd Refs

Bkwd Refs

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Term	Documents
COR\$4	0

COR	21566
CORA	1125
CORAB	23
CORABI	5
CORABIA	8
CORABID	1
CORABIE	3
CORABLE	12
CORAC	44
(L24 AND (COR\$4)) .PGPB,USPT,EPAB,JPAB,DWPI,TDBD.	4

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[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

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Generate Collection

Print

L25: Entry 2 of 4

File: USPT

Jan 18, 2005

US-PAT-NO: 6844727

DOCUMENT-IDENTIFIER: US 6844727 B2

TITLE: Method and apparatus of reducing ringing in a nuclear magnetic resonance probe

DATE-ISSUED: January 18, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kruspe; Thomas	Wienhausen			DE
Reiderman; Arcady	Houston	TX		
Blanz; Martin	Celle			DE
Rottengatter; Peter	Isernhagen			DE

US-CL-CURRENT: [324/303](#); [324/338](#), [343/788](#)

## CLAIMS:

What is claimed is:

1. A logging apparatus used in a wellbore formed in an earth formation comprising: an antenna assembly having (i) a transmitter coil which produces a radio frequency (RF) magnetic field in the earth formation and (ii) a magnetic core formed from a non-ferritic powdered soft magnetic material having high saturation flux density and a non-conductive bonding agent, said magnetic core having a magnetic permeability  $\mu$ .sub.m less than 500 and wherein said saturation flux density is greater than about 0.4 T;

wherein said antenna assembly receives an electromagnetic signal resulting from interaction of said RF magnetic field with said formation.

2. The logging apparatus of claim 1, wherein the magnetic core has dimensions which are related to a direction of the RF magnetic field and to the magnetic permeability  $\mu$ .sub.m of the non-ferritic powdered soft magnetic material.

3. The logging apparatus of claim 1, wherein the non-ferritic powdered soft magnetic material is conductive and has a maximum grain size that substantially prevents intragranular power loss from said RF magnetic field.

4. The logging apparatus of claim 1, wherein an effective demagnetizing factor of the magnetic core in a direction of the RF magnetic field substantially exceeds the inverse of the magnetic permeability  $\mu$ .sub.m of the non-ferritic powdered soft magnetic material.

5. The logging apparatus of claim 4, wherein the core has an effective permeability,  $\mu$ ., less than 5, as given by a first equation,

$$\mu = 1 + (\mu_{\text{m}} - 1)D,$$

wherein D is the demagnetizing factor that can be estimated from an elliptic equivalent of the cross-section of the core, as defined by a second equation,

$$D = S_x / (S_x + S_y),$$

wherein S<sub>x</sub> and S<sub>y</sub> represent the elliptic equivalent dimensions in horizontal and vertical directions respectively, in a plane the core.

6. The logging apparatus as defined in claim 1 wherein the non-ferritic powdered soft magnetic material possesses a maximum magnetic permeability for a predetermined maximum RF antenna power loss.

7. The logging apparatus of claim 1 wherein said saturation flux density is greater than that of a magnet consisting primarily of ferrite.

8. The logging apparatus of claim 1 wherein the magnetic core has relative dimensions that are related to the direction of the RF magnetic field and to the magnetic permeability  $\mu_{\text{m}}$  of the powdered soft magnetic material.

9. A method of making measurements of a parameter of interest of an earth formation comprising: conveying a logging tool into a borehole in said earth formation; using an antenna assembly on the logging tool for producing a radio frequency (RF) magnetic field within said earth formation and for detecting signals resulting from interaction of said magnetic field with said earth formation, the antenna assembly comprising a coil and a magnetic core formed from a non-ferritic powdered soft magnetic material having high saturation flux density and a non-conductive bonding agent, said magnetic core having a magnetic permeability  $\mu_{\text{m}}$  less than 500 and a saturation flux density greater than about 0.4 T.

10. The method of claim 9 further comprising selecting dimensions for the magnetic core which are related to a direction of the RF magnetic field and to the magnetic permeability of the powdered soft magnetic material.

11. The method of claim 9 further comprising selecting relative dimensions for the magnetic core which are related to the direction of the magnetic field and to the magnetic permeability of the powdered soft magnetic material.

12. The method of claim 9 wherein the non-ferritic powdered soft magnetic material is conductive, the method further comprising selecting a maximum grain size for the non-ferritic powdered soft magnetic material to substantially prevent intragranular power loss from said radio frequency magnetic field.

13. The method of claim 9 wherein an effective demagnetizing factor of the magnetic core in the direction of the magnetic field substantially exceeds the inverse of the magnetic permeability  $\mu_{\text{m}}$  of the non-ferritic powdered soft magnetic material.

14. The method of claim 13, wherein the core has an effective permeability,  $\mu$ , less than 5, as defined by a first equation,

$$\mu = 1 + (\mu_{\text{m}} - 1) / ((\mu_{\text{m}} - 1)D + 1),$$



wherein D, the demagnetizing factor can be estimated from an elliptic equivalent of the cross-section of the core, as defined by a second equation,

$$D = S_{\text{sub}.x} / (S_{\text{sub}.x} + S_{\text{sub}.y}),$$

wherein Sx and Sy represent the elliptic equivalent dimensions in horizontal and vertical dimensions respectively, in a plane the core.

15. The method of claim 9, wherein the non-ferritic powdered soft magnetic material possesses a maximum magnetic permeability for a predetermined maximum RF antenna power loss.

16. The method of claim 9, wherein a magnet and an antenna on the antenna assembly possess an elongation direction, the radio frequency magnetic field and a static magnetic field produced by said magnet being perpendicular to the elongation direction.

17. A logging apparatus for use in a wellbore in an earth formation, comprising: an antenna assembly which transmits an electromagnetic signal into the earth formation and receives an electromagnetic signal resulting from passage of the transmitted signal through said earth formation; wherein said antenna assembly includes a magnetic core formed from a non-ferritic powdered soft magnetic material and a non-conductive bonding agent, said magnetic core having a magnetic permeability  $\mu_{\text{sub}.m}$  less than 500 and a saturation flux density greater than about 0.4 T.

18. A method of making measurements of a parameter of interest of an earth formation comprising: conveying a logging tool into a borehole in said earth formation; using an antenna assembly on the logging tool for transmitting an electromagnetic signal into the earth formation and receiving an electromagnetic signal resulting from interaction of the transmitted signal with said earth formation;

wherein the antenna assembly comprises a coil and a magnetic core formed from a non-ferritic powdered soft magnetic material having high saturation flux density and a non-conductive bonding agent, said magnetic core having a magnetic permeability  $\mu_{\text{sub}.m}$  less than 500 and a saturation flux density greater than about 0.4 T.

[Previous Doc](#)

[Next Doc](#)

[Go to Doc#](#)

## Hit List

[First Hit](#)[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Search Results - Record(s) 1 through 11 of 11 returned.

☐ 1. Document ID: US 20070010702 A1

L29: Entry 1 of 11

File: PGPB

Jan 11, 2007

PGPUB-DOCUMENT-NUMBER: 20070010702

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070010702 A1

TITLE: Medical device with low magnetic susceptibility

PUBLICATION-DATE: January 11, 2007

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wang; Xingwu	Wellsville	NY	US
Greenwald; Howard J.	Rochester	NY	US

US-CL-CURRENT: [600/8](#); [424/422](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. D.
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☐ 2. Document ID: US 20050248341 A1

L29: Entry 2 of 11

File: PGPB

Nov 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050248341

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050248341 A1

TITLE: Antenna core material for use in mwd resistivity measurements and d nmr measurements

PUBLICATION-DATE: November 10, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kruspe, Thomas	Wienhausen	TX	DE
Reiderman, Arcady	Houston		US
Blanz, Martin	Celle		DE
Rottengatter, Peter	Celle		DE

US-CL-CURRENT: [324/303](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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3. Document ID: US 20050127909 A1

L29: Entry 3 of 11

File: PGPB

Jun 16, 2005

PGPUB-DOCUMENT-NUMBER: 20050127909

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050127909 A1

TITLE: Method and apparatus of reducing ringing in a nuclear magnetic resonance  
probe

PUBLICATION-DATE: June 16, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kruspe, Thomas	Wienhausen	TX	DE
Reiderman, Arcady	Houston		US
Blanz, Martin	Celle		DE
Rottengatter, Peter	Isernhagen		DE

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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4. Document ID: US 20050107870 A1

L29: Entry 4 of 11

File: PGPB

May 19, 2005

PGPUB-DOCUMENT-NUMBER: 20050107870

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050107870 A1

TITLE: Medical device with multiple coating layers

PUBLICATION-DATE: May 19, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wang, Xingwu	Wellsville	NY	US
Greenwald, Howard J.	Rochester	NY	US

US-CL-CURRENT: 623/1.44

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 5. Document ID: US 20050079132 A1

L29: Entry 5 of 11

File: PGPB

Apr 14, 2005

PGPUB-DOCUMENT-NUMBER: 20050079132

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050079132 A1

TITLE: Medical device with low magnetic susceptibility

PUBLICATION-DATE: April 14, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wang, Xingwu	Wellsville	NY	US
Greenwald, Howard J.	Rochester	NY	US
Gunderman, Robert D.	Honeyoye Falls	NY	US

US-CL-CURRENT: 424/1.11; 424/422, 424/423, 600/8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 6. Document ID: US 20050025797 A1

L29: Entry 6 of 11

File: PGPB

Feb 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050025797

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050025797 A1

TITLE: Medical device with low magnetic susceptibility

PUBLICATION-DATE: February 3, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wang, Xingwu	Wellsville	NY	US
Greenwald, Howard Jay	Rochester	NY	US

US-CL-CURRENT: 424/422; 424/423, 424/489

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 7. Document ID: US 20040254419 A1

L29: Entry 7 of 11

File: PGPB

Dec 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040254419

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040254419 A1

TITLE: Therapeutic assembly

PUBLICATION-DATE: December 16, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wang, Xingwu	Wellsville	NY	US
Greenwald, Howard J.	Rochester	NY	US
Lanzafame, John	Victor	NY	US
Weiner, Michael L.	Webster	NY	US
Connelly, Patrick R.	Rochester	NY	US

US-CL-CURRENT: 600/8; 424/1.11, 424/422

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw D
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☐ 8. Document ID: US 20030038631 A1

L29: Entry 8 of 11

File: PGPB

Feb 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030038631

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030038631 A1

TITLE: Method and apparatus of reducing ringing in a nuclear magnetic resonance probe

PUBLICATION-DATE: February 27, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kruspe, Thomas	Wienhausen	TX	DE
Reiderman, Arcady	Houston		US
Blanz, Martin	Celle		DE
Rottengatter, Peter	Isernhagen		DE

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw D
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☐ 9. Document ID: US 7084625 B2

L29: Entry 9 of 11

File: USPT

Aug 1, 2006

US-PAT-NO: 7084625

DOCUMENT-IDENTIFIER: US 7084625 B2

TITLE: Method and apparatus of reducing ringing in a nuclear magnetic resonance probe

DATE-ISSUED: August 1, 2006

## PRIOR-PUBLICATION:

DOC-ID	DATE
US 20050127909 A1	June 16, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kruspe; Thomas	Wienhausen			DE
Reiderman; Arcady	Houston	TX		US
Blanz; Martin	Celle			DE
Rottengatter; Peter	Isernhagen			DE

US-CL-CURRENT: 324/303

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. D
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☐ 10. Document ID: US 6844727 B2

L29: Entry 10 of 11

File: USPT

Jan 18, 2005

US-PAT-NO: 6844727

DOCUMENT-IDENTIFIER: US 6844727 B2

TITLE: Method and apparatus of reducing ringing in a nuclear magnetic resonance probe

DATE-ISSUED: January 18, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kruspe; Thomas	Wienhausen			DE
Reiderman; Arcady	Houston	TX		
Blanz; Martin	Celle			DE
Rottengatter; Peter	Isernhagen			DE

US-CL-CURRENT: 324/303; 324/338, 343/788

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw. D
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☐ 11. Document ID: US 20030038631 A1, WO 2004001436 A2, AU 2003248700 A1, US 6844727 B2, EP 1514128 A2, GB 2405944 A

L29: Entry 11 of 11

File: DWPI

Feb 27, 2003

DERWENT-ACC-NO: 2003-418172

DERWENT-WEEK: 200635

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TITLE: Nuclear magnetic resonance logging apparatus for use in bore hole has

transmitting and receiving antenna that includes magnetic core formed from material having high internal magnetostrictive damping and low magnetostriction

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	K/MC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
MAGNETOSTRICTIVE	17319
MAGNETOSTRICTIVES	41
MAGNETOSTRICTION	9166
MAGNETOSTRICTIONS	144
DAMPENING	41856
DAMPENINGS	21
MAGNETO-RESTRICT\$5	0
MAGNETO-RESTRICTION	30
MAGNETO-RESTRICTIVE	338
MAGNETO-RESTRICTIVELY	3
(L20 AND ((MAGNETOSTRICTIVE OR MAGNETOSTRICTION OR MAGNETO-RESTRICT\$5 OR MAGNETORESTRICT\$5) WITH (DAMPENING OR DAMP\$4 OR CANCEL\$7 OR NULL\$4 OR INSULAT\$4))) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	11

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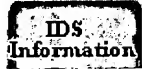
[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

 PALM IntranetApplication Number  

IDS Flag Clearance for Application 10518125

 IDS  
Information

Content	Mailroom Date	Entry Number	IDS Review	Last Modified	Reviewer
M844	2005-09-15	19	Y <input checked="" type="checkbox"/>	2006-09-02 11:44:52.0	TFetzner
M844	2005-07-05	15	Y <input checked="" type="checkbox"/>	2006-09-02 11:44:56.0	TFetzner
<input type="button" value="Update"/>					